

## **Claims**

**1. A nucleic acid recovery chip in a cell, having an electrically conductive area disposed on a transparent substrate with a nucleic acid binding part and a cell accommodating container part provided on the area, comprising a means for applying an electric potential to the above-mentioned electrically conductive area, and a means for culturing a cell in the cell accommodating container part, characterized in that the above-mentioned electrically conductive area has the absorption of a light beam of a specific wavelength such that it generates a heat locally by the light irradiation of the specific wavelength so as to locally dissociate and recover the nucleic acid components bound on the electrically conductive area.**

**2. The nucleic acid recovery chip according to claim 1, characterized in comprising an electrically conductive area and an upper electrically conductive part disposed facing thereto as the means for applying the electric potential to the electrically conductive area.**

**3. The nucleic acid recovery chip according to claim 1 or 2, characterized in comprising a housing container part for enveloping the cell accommodating container part for allowing passage of a cell culturing solution as the means for culturing the cell in the cell accommodating container part.**

**4. The nucleic acid recovery chip according to any of claims 1 to 3, characterized in that at least one cell accommodating container part for accommodating a cell is provided.**

**5. A nucleic acid recovery device comprising the nucleic acid recovery chip according to any of claims 1 to 4, characterized in comprising an optical system for directing a light beam of a specific wavelength to the electrically conductive area of the nucleic acid recovery chip for locally generating a heat, and a power source**

**system for applying the electric potential to the area.**

**6. The nucleic acid recovery device according to claim 5, characterized in comprising an observation system for observing the cellular state.**

**7. The nucleic acid recovery device according to claim 5 or 6, characterized in comprising a transportation system for a culturing solution for a cell.**